ELSEVIER

International Journal of Mass Spectrometry 177 (1998) 225

Author Index

Abramzon, N., 143

Becker, K., 47, 143
Benazouz, M., 217
Bernhardt, T.M., L5

Cederquist, H., 51
Chang, T.-L., 131
Cooks, R.G., 91

Debrun, J.L., 217
DeSantolo, A.M., 63
Deutsch, H., 47
Durakiewicz, T., 155

Fiegele, T., 105
Fishman, V.N., 175
Frankevich, V., 91
Futrell, J.H., 105

Goeringer, D.E., 163
Grabowski, J.J., 175
Grill, V., 143

Hadas, B., L9
Hakim, B., 217
Halas, S., 155
Hvelplund, P., 51

Igarashi, M., 17

Jäckel, J.-G., 197
Johnson, R.E., 111
Jones, H., 197
Joshipura, K.N., 137
Juraschek, R., 1

Kaiser, B., L5
Kinne, M., L5
Koitabashi, R., 23
Komaguchi, K., 17

Land, D.P., 83
Larsen, M.C., 51
Larsson, M.O., 51
Laskin, J., L9
Lavendy, H., 31
LeBeyec, Y., 111
Li, W.-J., 131
Li, Y., L1
Lifshitz, C., L9
Liu, X.-H., L1
Lou, N.-Q., L1

Mair, C., 105
Mandich, M.L., 63
Märk, T.D., 47, 105, 143, L9
Matt, S., 143
McLuckey, S.A., 163

Nappi, M., 91

O'Connor, C.S.S., 119

Pascoli, G., 31
Poll, H.U., 143
Posey, L.A., 187
Price, S.D., 119

Qian, Q.-Y., 131

Rademann, K., L5
Reents, W.D., Jr., 63
Rocklein, M.N., 83
Röllgen, F.W., 1

Scheier, P., 143
Schmid, R.P., 197
Schmidt, H.T., 51
Sekiguchi, O., 23
Shen, H., 51
Soni, M., 91
Spence, T.G., 187

Tachikawa, H., 17
Tajima, S., 23, 23
Takeo, H., 197
Taubmann, G., 197
Trotter, B.T., 187

Vinodkumar, M., 137

Wang, J., 131
Wang, X.-Y., L1
Wörgötter, R., 105

Zhang, X.-G., L1
Zhao, M.-T., 131

ELSEVIER

International Journal of Mass Spectrometry 177 (1998) 227–230

International Journal of Mass Spectrometry

Subject Index

Absorption potential
Ionizing collisions of electrons with H_2O molecules in ice and in water, 137
Atomic weight
Absolute isotopic composition and atomic weight of erbium, 131

Binding energies
New evidence in favor of a high (10 eV) C_2 binding energy in C_{60}, L9

Carbon
Density functional study of mixed silicon carbide cluster cations $C_nSi_p^+$ $(n + p = 5,6)$, 31
Carbon clusters
Density functional study of mixed silicon carbide cluster cations $C_nSi_p^+$ $(n + p = 5,6)$, 31
Cations
Density functional study of mixed silicon carbide cluster cations $C_nSi_p^+$ $(n + p = 5,6)$, 31
CCl_4^-
Formation mechanism of CCl_4^- anion in condensed phase: a direct ab initio dynamics study, 17
Charge exchange
Mass spectra of $Fe(CO)_5$ using Fourier transform mass spectrometry (FTMS) and laser induced thermal desorption FTMS with electron ionization, charge exchange, and proton transfer, 83
Chemical ionization
Mass spectra of $Fe(CO)_5$ using Fourier transform mass spectrometry (FTMS) and laser induced thermal desorption FTMS with electron ionization, charge exchange, and proton transfer, 83
Chemical sputtering
Low-energy collisions of CF_3^+ ions with a hydrocarbon covered surface: Scattering, chemical sputtering, and reactive collisions, 105
Cluster
Generation of titanium oxide clusters of relatively large size, L1
Cluster formation reaction
Photoionization investigation of cluster formation in heterocyclic compounds and their reactions with acidic species, 197
Clusters
External source Fourier transform ion cyclotron resonance mass spectrometry by using a split-pair magnet, 63
Formation of antimony oxide clusters in a molecular beam, L5
Coincidence spectroscopy
Formation and dissociation of the nitric acid dication, 119
Collisional cooling
Relaxation of internally excited high-mass ions simulated under typical quadrupole ion trap storage conditions, 163
Cone jet
Pulsation phenomena during electrospray ionization, 1
Cross section
Electron capture and energy loss in ~100 keV collisions of atomic and molecular ions on C_{60}, 51

Density functional theory
Density functional study of mixed silicon carbide cluster cations $C_nSi_p^+$ $(n + p = 5,6)$, 31
Desorption
Angular distribution of the ejecta in matrix-assisted laser desorption/ionization: Model dependence, 111
Direct ab initio dynamics
Formation mechanism of CCl_4^- anion in condensed phase: a direct ab initio dynamics study, 17
Direct laser vaporization
Generation of titanium oxide clusters of relatively large size, L1

Electron beam evaporation
Cooling of an incandescent filament by thermionic emission, 155
Electron capture
Electron capture and energy loss in ~100 keV collisions of atomic and molecular ions on C_{60}, 51
Electron ionization
Formation and dissociation of the nitric acid dication, 119
Kinetic energies of ions produced by dissociative electron impact ionization of propane, 143

Electrospray ionization
Pulsation phenomena during electrospray ionization, 1
Ligand-field photochemistry of the $[Cu^{II}(bpy)(serine-H)]^{+\cdot}$ complex in the gas phase, 187
Energy loss spectra
Electron capture and energy loss in ~100 keV collisions of atomic and molecular ions on C_{60}, 51
Erbium
Absolute isotopic composition and atomic weight of erbium, 131
External ion source
External source Fourier transform ion cyclotron resonance mass spectrometry by using a split-pair magnet, 63

Filament
Cooling of an incandescent filament by thermionic emission, 155
Flowing afterglow
Simplified injector flanges for the selected ion flow tube, 175
Fourier transform
Characteristics of a broad-band Fourier transform ion mass spectrometer, 91
Fourier transform ion cyclotron resonance mass spectrometry
External source Fourier transform ion cyclotron resonance mass spectrometry by using a split-pair magnet, 63
Fragment ions
Kinetic energies of ions produced by dissociative electron impact ionization of propane, 143
Fullerene
Electron capture and energy loss in ~100 keV collisions of atomic and molecular ions on C_{60}, 51
Fullerene ions
New evidence in favor of a high (10 eV) C_2 binding energy in C_{60}, L9

H_2O in ice liquid
Ionizing collisions of electrons with H_2O molecules in ice and in water, 137
Helium bath gas
Relaxation of internally excited high-mass ions simulated under typical quadrupole ion trap storage conditions, 163
Heterocyclics
Photoionization investigation of cluster formation in heterocyclic compounds and their reactions with acidic species, 197

Inelastic cross sections
Ionizing collisions of electrons with H_2O molecules in ice and in water, 137
Injector flange
Simplified injector flanges for the selected ion flow tube, 175
Internal relaxation
Relaxation of internally excited high-mass ions simulated under typical quadrupole ion trap storage conditions, 163
Ionization cross sections
Improved low-energy dependence of calculated cross sections for the K-shell ionization of atoms using the Deutsch-Märk formalism, 47
Ion motion
Characteristics of a broad-band Fourier transform ion mass spectrometer, 91
Ion-neutral complexes
Decomposition of metastable methyl trifluoroacetate and ethyl trifluoroacetate upon electron impact, 23
Ion-surface reactions, CF_3^+
Low-energy collisions of CF_3^+ ions with a hydrocarbon covered surface: Scattering, chemical sputtering, and reactive collisions, 105
Ion trap
Characteristics of a broad-band Fourier transform ion mass spectrometer, 91
Ion trap/reflectron
New evidence in favor of a high (10 eV) C_2 binding energy in C_{60}, L9
Iron pentacarbonyl
Mass spectra of $Fe(CO)_5$ using Fourier transform mass spectrometry (FTMS) and laser induced thermal desorption FTMS with electron ionization, charge exchange, and proton transfer, 83
Isotopic abundance
Absolute isotopic composition and atomic weight of erbium, 131

Kinetic energy
Kinetic energies of ions produced by dissociative electron impact ionization of propane, 143
K-shell ionization
Improved low-energy dependence of calculated cross sections for the K-shell ionization of atoms using the Deutsch-Märk formalism, 47

Laser
Angular distribution of the ejecta in matrix-assisted laser desorption/ionization: Model dependence, 111
Laser description thin layers
Influence of the substrate on the ion yield in direct laser desorption-ionization for thin organic layers, 217
Laser-induced thermal desorption
Mass spectra of $Fe(CO)_5$ using Fourier transform mass spectrometry (FTMS) and laser induced thermal desorption FTMS with electron ionization, charge exchange, and proton transfer, 83

MALDI
Angular distribution of the ejecta in matrix-assisted laser desorption/ionization: Model dependence, 111
Mass spectrometry
Density functional study of mixed silicon carbide cluster cations $C_nSi_p^+$ ($n + p = 5,6$), 31
Cooling of an incandescent filament by thermionic emission, 155
Metal oxides
Formation of antimony oxide clusters in a molecular beam, L5
Metastable fraction
New evidence in favor of a high (10 eV) C_2 binding energy in C_{60}, L9
Metastable ion
Decomposition of metastable methyl trifluoroacetate and ethyl trifluoroacetate upon electron impact, 23
MIKE
Decomposition of metastable methyl trifluoroacetate and ethyl trifluoroacetate upon electron impact, 23
Molecular beams
Formation of antimony oxide clusters in a molecular beam, L5

Nitric acid dication
Formation and dissociation of the nitric acid dication, 119
Nondestructive detection
Characteristics of a broad-band Fourier transform ion mass spectrometer, 91

Organofluorine compounds
Decomposition of metastable methyl trifluoroacetate and ethyl trifluoroacetate upon electron impact, 23

Photochemistry
Ligand-field photochemistry of the $[Cu^{II}(bpy)(serine\text{-}H)]^{+\bullet}$ complex in the gas phase, 187
Photoionization
Photoionization investigation of cluster formation in heterocyclic compounds and their reactions with acidic species, 197
Propane
Kinetic energies of ions produced by dissociative electron impact ionization of propane, 143
Proton transfer
Mass spectra of $Fe(CO)_5$ using Fourier transform mass spectrometry (FTMS) and laser induced thermal desorption FTMS with electron ionization, charge exchange, and proton transfer, 83

Pulsation phenomena
Pulsation phenomena during electrospray ionization, 1

Quadrupole field
Characteristics of a broad-band Fourier transform ion mass spectrometer, 91
Quadrupole ion trap
Relaxation of internally excited high-mass ions simulated under typical quadrupole ion trap storage conditions, 163

Selected ion flow tube
Simplified injector flanges for the selected ion flow tube, 175
Semiempirical methods
Improved low-energy dependence of calculated cross sections for the K-shell ionization of atoms using the Deutsch-Märk formalism, 47
SIFT
Simplified injector flanges for the selected ion flow tube, 175
Silicon
Density functional study of mixed silicon carbide cluster cations $C_nSi_p^+$ ($n + p = 5,6$), 31
Silicone carbide
Density functional study of mixed silicon carbide cluster cations $C_nSi_p^+$ ($n + p = 5,6$), 31
Simulations
Characteristics of a broad-band Fourier transform ion mass spectrometer, 91
Spin density
Formation mechanism of CCl_4^- anion in condensed phase: a direct ab initio dynamics study, 17
Split-pair magnet
External source Fourier transform ion cyclotron resonance mass spectrometry by using a split-pair magnet, 63
Structure elucidation
Formation of antimony oxide clusters in a molecular beam, L5

Tandem mass spectrometry
Low-energy collisions of CF_3^+ ions with a hydrocarbon covered surface: Scattering, chemical sputtering, and reactive collisions, 105
Temperature distribution
Cooling of an incandescent filament by thermionic emission, 155
Thermionic emission
Cooling of an incandescent filament by thermionic emission, 155
Time-of-flight
Influence of the substrate on the ion yield in direct laser desorption-ionization for thin organic layers, 217
Time-of-flight mass spectrometry
Formation and dissociation of the nitric acid dication, 119

Titanium oxide
Generation of titanium oxide clusters of relatively large size, L1
TOF mass spectrometer
Generation of titanium oxide clusters of relatively large size, L1
Trajectory
Formation mechanism of CCl_4^- anion in condensed phase: a direct ab initio dynamics study, 17
Transition-metal-ion complex
Ligand-field photochemistry of the $[Cu^{II}(bpy)(serine-H)]^{+\bullet}$ complex in the gas phase, 187
Venturi inlet
Simplified injector flanges for the selected ion flow tube, 175
Work function
Cooling of an incandescent filament by thermionic emission, 155